

IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/938,901A

DATE: 09/28/2004 TIME: 10:38:43

Input Set : A:\11283-013001.ST25.txt Output Set: N:\CRF4\09282004\1938901A.raw

3 <110> APPLICANT: Kuramitsu, Seiki Yokoyama, Shigeyuki 6 <120> TITLE OF INVENTION: Novel DNA Repair Enzymes, Nucleic Acids Encoding DNA Repair Enzymes And Methods of Using Them 9 <130> FILE REFERENCE: 11283-013001/PH1261 US 11 <140> CURRENT APPLICATION NUMBER: US 09/938,901A 12 <141> CURRENT FILING DATE: 2001-08-24 14 <150> PRIOR APPLICATION NUMBER: JP 47762/2001 15 <151> PRIOR FILING DATE: 2001-02-23 17 <160> NUMBER OF SEQ ID NOS: 65 19 <170> SOFTWARE: PatentIn version 3.3 21 <210> SEQ ID NO: 1 22 <211> LENGTH: 975 23 <212> TYPE: DNA 24 <213> ORGANISM: Thermus thermophilus 27 <220> FEATURE: 201 NAME/KEV





28	<221	L> N/	AME/I	KEY:	CDS										V).		
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33	Met	Glu	Ala	Trp	Arg	Lys	Ala	Leu	Leu	Ala	Trp	Tyr	Arg	Glu	Asn	Ala	
34	1				5					10					15		
36	cgc	CCC	ctc	CCC	tgg	cgg	ggg	gag	aag	gac	cct	tac	cgc	gtc	ctg	gtc	96
37	Arg	Pro	Leu	Pro	Trp	Arg	Gly	Glu	Lys	Asp	Pro	Tyr	Arg	Val	Leu	Val	
38				20					25					30			
40	tcc	gag	gtc	ctt	ctg	cag	cag	acc	cgg	gtg	gag	cag	gcc	ctc	CCC	tat	144
41	Ser	Glu	Val	Leu	Leu	Gln	Gln	Thr	Arg	Val	Glu	Gln	Ala	Leu	Pro	Tyr	
42			35					40					4 5				
44	tac	cgc	cgc.	ttt	ctg	gag	cgc	ttt	CCC	acc	ctg	aag	gcc	ctg	gcc	gcg	192
45	Tyr	Arg	Arg	Phe	Leu	Glu	Arg	Phe	Pro	Thr	Leu	Lys	Ala	Leu	Ala	Ala	
46		50					55					60					
48	gct	tcc	ctg	gaa	gag	gtc	ctt	agg	gtc	tgg	cag	ggg	gcg	ggc	tac	tac	240
49	Ala	Ser	Leu	Glu	Glu	Val	Leu	Arg	Val	Trp	Gln	Gly	Ala	Gly	Tyr	Tyr	
50	65					70					75					80	
52	cgg	cgg	gcg	gaa	cac	ctc	cac	cgc	ctg	gcc	cga	agc	gtg	gag	gag	ctt	288
53	Arg	Arg	Ala	Glu	His	Leu	His	Arg	Leu	Ala	Arg	Ser	Val	Glu	Glu	Leu	
54					85					90					95		
56	CCC	ccg	agc	ttc	gcc	gag	ctt	cgg	ggg	ctt	cct	ggt	ctc	ggg	cct	tac	336
57	Pro	Pro	Ser	Phe	Ala	Glu	Leu	Arg	Gly	Leu	Pro	Gly	Leu	Gly	Pro	Tyr	
58				100					105					110			
.60	acc	gcg	gcg	gcg	gtg	gcc.	tcc	atc	gcc	ttc	ggg	gag	cgg	gtg	gcg	gcg	384
61	Thr	Ala	Ala	Ala	Val	Ala	Ser	Ile	Ala	Phe	Gly	Glu	Arg	Val	Ala	Ala	
62			115					120					125				

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64	gtg	gac	999	aac	gtc	cgg	agg	gtc	ctc	tcc	cgc	ctc	ttc	gcc	cgg	gaa	432
	Val		Gly	Asn	Val	Arg		Val	Leu	Ser	Arg	Leu	Phe	Ala	Arg	Glu	
66		130					135					140					
68	agc	CCC	aag	gag	aag	gag	ctt	ttc	gcc	ctc	gcc	cag	ggc	ctc	ctc	CCC	480
		Pro	Lys	Glu	Lys		Leu	Phe	Ala	Leu		Gln	Gly	Leu	Leu	Pro	
	145					150					155					160	
72	gag	ggc	gtg	gac	ccg	999	gtg	tgg	aac	cag	gcc	ctc	atg	gag	ctc	ggg	528
73 74	GIU	СТУ	vaı	Asp		GIY	Val	Trp	Asn		Ala	Leu	Met	Glu		Gly	
	aaa	200	at a	+~~	165	~~~			.	170					175		
77	Mls	Thr	yee val	tgc	Tau	Dro	aaa	cgg	CCC	cgt	tgc	ggg	gcc	tgc	ccc	cta -	576
78	ліа	1111,	val	Cys 180	ьец	PIO	гуѕ	Arg	185	Arg	Cys	GIA	Ala		Pro	Leu	
_	aaa	acc	ttc	tgc	caa	aaa	220	asa		000	aaa	aaa	+	190			60.4
81	Glv	Ala	Phe	Cys	Ara	999 Gl v	Lve	Glu	Δla	Dro	999 Glw	Ara	Tur	Dro	geg	CCC	624
82	~- <i>1</i>		195	CID	****9	O ₁ y	шуы	200	nia	110	СТУ	Arg	205	PLO	Ala	PIO	
	agg	aaq		cgg	aca	aad	aaa		cac	ctc	ata	acc		ata	ata	ata	672
85	Arq	Lvs	Arq	Arg	Ala	Lvs	Glu	Glu	Ara	Len	Val	Ala	Len	Val	T.aii	T.eu	672
86		210	J	J		_1	215		5	ncu.	val	220	пси	vai	пси	пец	
88	999	cgg	aag	999	gtg	cac		qaa	aqq	ctt	gag		cac	ttc	caq	aac	720
89	Gly	Arg	Lys	Gly	Val	His	Leu	Ğlu	Arq	Leu	Glu	Glv	Ara	Phe	Gln	Glv	, , 20
90	225					230			_		235	-				240	
92	ctc	tac	ggc	gtc	CCC	ctc	ttt	CCC	cct	gag	gag	ctt	CCC	qqq	cqq	gaq	768
93	Leu	Tyr	Gly	Val	Pro	Leu	Phe	Pro	Pro	Glu	Glu	Leu	Pro	Gly	Arg	Glu	
94					245					250				=,	255		
96	gcg	gcc	ttc	999	gtg	agg	tct	agg	CCC	cta	ggc	gag	gtg	cgc	cac	gcc	816
	Ala	Ala	Phe	Gly	Val	Arg	Ser	Arg	Pro	Leu	Gly	Glu	Val	Arg	His	Ala	
98				260					265					270			
100	ctc	acc	cac	cgg	agg	ctt	cgc	gtg	gag	gtg	cgg	1 999	gcc	ctt	tgg	gaa	864
TOT	ьeu	Tnr			Arg	Leu	Arg			. Val	Arg	Gly			${\tt Trp}$	Glu	
102		~~~	275		~~~			280					285				
105	999	gay	999	gag	yac Aan	Dro	Ten	aag	agg	CCC	cta	CCC	aag	ctc	atg	gag	912
106		290		Glu	АБР	PIO	295		Arg	PIO	ьeu.			Leu	Met	GIu	
				cgc	aag	aca			ctc	ata	act	300		~~~	at a	~+-	0.00
109	Lvs	Val	Leu	Arg	Lvs	Ala	Len	Pro	T.e.11	T.611	Ala	Udia	90g	ggc	yıa	gre	960
	305			5		310			ДСИ	пси	315		та	Gry	vai	320	
			ccq	gac	qca						7					320	975
				Asp													973
114				-	325												
117	<21	0 > S	EQ I	D NO	: 2												
118	<21	1> L	ENGT	H: 3	25												
119	<21	2> T	YPE:	PRT													•
120	<21	3 > O	RGAN	ISM:	The	rmus	the	rmop	hilu	s							
				NCE:													
124	Met.	Glu	Ala	Trp	Arg	Lys	Ala	Leu	Leu	Ala	Trp	Tyr	Arg	Glu	Asn	Ala	
125		_			5					10			-		15		
128	Arg	Pro	Leu	Pro	Trp	Arg	Gly	Glu		Asp	Pro	Tyr	Arg	Val	Leu	Val	
129		~ ·	** 7	20	_				25					30			
132	ser	GLU	val	Leu	Leu	GIn	Gln	Tḥr	Arg	Val	Glu	Gln	Ala	Leu	Pro	Tyr	

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40
136 Tyr Arg Arg Phe Leu Glu Arg Phe Pro Thr Leu Lys Ala Leu Ala Ala
                             55
140 Ala Ser Leu Glu Glu Val Leu Arg Val Trp Gln Gly Ala Gly Tyr Tyr
141 65
                         70
144 Arg Arg Ala Glu His Leu His Arg Leu Ala Arg Ser Val Glu Glu Leu
148 Pro Pro Ser Phe Ala Glu Leu Arg Gly Leu Pro Gly Leu Gly Pro Tyr
                100
                                     105
152 Thr Ala Ala Ala Val Ala Ser Ile Ala Phe Gly Glu Arg Val Ala Ala
            115
                                 120
156 Val Asp Gly Asn Val Arg Arg Val Leu Ser Arg Leu Phe Ala Arg Glu
                            135
                                                 140
160 Ser Pro Lys Glu Lys Glu Leu Phe Ala Leu Ala Gln Gly Leu Leu Pro
                        150
164 Glu Gly Val Asp Pro Gly Val Trp Asn Gln Ala Leu Met Glu Leu Gly
168 Ala Thr Val Cys Leu Pro Lys Arg Pro Arg Cys Gly Ala Cys Pro Leu
                180
                                     185
172 Gly Ala Phe Cys Arg Gly Lys Glu Ala Pro Gly Arg Tyr Pro Ala Pro
173
            195
                                200
176 Arg Lys Arg Arg Ala Lys Glu Glu Arg Leu Val Ala Leu Val Leu Leu
                            215
180 Gly Arg Lys Gly Val His Leu Glu Arg Leu Glu Gly Arg Phe Gln Gly
                        230
                                             235
184 Leu Tyr Gly Val Pro Leu Phe Pro Pro Glu Glu Leu Pro Gly Arg Glu
                    245
                                         250
188 Ala Ala Phe Gly Val Arg Ser Arg Pro Leu Gly Glu Val Arg His Ala
                260
                                     265
192 Leu Thr His Arg Arg Leu Arg Val Glu Val Arg Gly Ala Leu Trp Glu
            275
                                280
196 Gly Glu Gly Glu Asp Pro Trp Lys Arg Pro Leu Pro Lys Leu Met Glu
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200 Lys Val Leu Arg Lys Ala Leu Pro Leu Leu Ala His Ala Gly Val Val
201 305
                        310
                                             315
204 Pro Leu Pro Asp Ala
205
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210 <212> TYPE: DNA
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214 <220> FEATURE:
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216 <222> LOCATION: (1)..(1998)
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                    5
223 cag tgg cgg gag gtg atg gcg gcc ttg gag gtg ggg ccg gag gcc gcc
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224 225	Gln	Trp	Arg	Glu 20	Val	Met	Ala	Ala	Leu 25	Glu	Val	Gly	Pro		Ala	Ala		
		acc	tac		020		aaa	+++		~~~				30				
228	Len	Δla	Tur	Trn	Uic	. Cyy	990	Dho	Arg	Z	aag	gag	gac	ctg	gac	CCC	•	144
229) LCu	ліа	35	тър	птъ	Aig	GIY	40	Arg	Arg	гуѕ	GIU		ьeu	Asp	Pro		
		ctc		ata	att		ata		~~~				45					
233	Dro	Lou	712	Lou	Tou	Dwo	CLC	aag	ggc	ctg	agg	gag	gcg	gcg	gcc	ctc		192
233		50	ATG	ьеи	ьeu	PIO		гуѕ	Gly	Leu	Arg		Ala	Ala	Ala	Leu		
			~~~	~~~			55					60						
233	Tan	gag	gag	gcg	CLC	cgc	cag	ggg	aag	cgg	atc	cgc	gtc	cac	999	gac		240
		GIU	Gru	Ата	ьeu		GIn	GIĀ	Lys	Arg		Arg	Val	His	Gly	_		
	65					70					75					80		
239	tac	gac	gcc	gac	999	ctc	acg	ggc	acg	gcc	atc	ctg	gtt	cgg	ggc	ctc		288
		Asp	Ата	Asp		Leu	Thr	GLy	Thr		Ile	Leu	Val	Arg	Gly	Leu		
241					85					90					95			
243	gcc	gcc	ttg	ggc	gcc	gac	gtc	cac	CCC	ttc	atc	CCC	cac	cgg	ctg	gag		336
		Ala	Leu		Ala	Asp	Val	His	Pro	Phe	Ile	Pro	His	Arg	Leu	Glu		
245				100				•	105					110				
247	gaa	aaa	tac	999	gtg	ctg	atg	gag	cgg	gtt	CCC	gag	cac	ctc	gag	gcc		384
248	Glu	Gly	Tyr	Gly	Val	Leu	Met	Glu	Arg	Val	Pro	Glu	His	Leu	Glu	Ala		
249			115					120					125					
251	tcg	gac	ctc	ttc	ctc	acc	gtg	gac	tgc	ggg	atc	acg	aac	cac	qcc	qaq		432
252	Ser	Asp	Leu	Phe	Leu	Thr	Val	Asp	Cys	Gly	Ile	Thr	Asn	His	Āla	Glu		
253		130					135			-		140						
255	ctc	agg	gag	ctt	ttg	gaa	aac	ggg	gtg	qaq	qtq	atc	qtc	acc	qac	cac		480
256	Leu	Arg	Glu	Leu	Leu	Glu	Asn	Gly	Val	Glu	Val	Ile	Val	Thr	Asp	His		
257	145					150		•			155					160		
259	cac	acc	ccc	qqc	aaq	acc	cct	tcċ	CCC	aac		at.a	atc	cac	ccc			528
260	His	Thr	Pro	Gly	Lvs	Thr	Pro	Ser	Pro	Glv	Leu	Val	Val	Hig	Pro	Δla		520
261				-	165					170			vai	1115	175	лια		
263	ctc	acc	ccq	qac	ctt	aaq	aaa	aaσ	ccc		aaa	aca	aaa	ata		tta		576
264	Leu	Thr	Pro	Asp	Leu	Lvs	Glu	Lvs	Pro	Thr	233	31 ₃	999 Glv	yra1	y.c.	Dho		576
265				180		-1-	<b>02</b> u	270	185		Ory	mu	GLY	190	vai	FIIE		
267	ctc	ctc	ata		acc	ctc	cac	gag	cgc	cta	aaa	att	aaa		aaa	at a		C24
. 268	Leu	Leu	Len	Trn	Δla	Len	Hig	Glu	Arg	Len	Clu	LOU	Dro	Dro	Dwa	Tau		624
269			195		1114	Lou		200	n. g	Licu	СТУ	пеа	205	PLO	PLO	neu		
	gag	tac		gac	ctc	acc	aca		ggc	200	at a	~~~		~+~	~~~			680
272	Glu	Tur	Δla	Acn	LAU	712	772	77-1	Gly	Th.~	Tla	31-	gac	gra	gee	CCC		672
273	014	210	21 <u>1</u> u	1150	псц	лта	215	vai	Gry	1111	тте		Asp	vai	Ата	Pro		
	ctt		aaa	taa	224	000		++~	~+~			220						
276	T.011	Trn	99C	Trn	Aar	720	71.	Tan	gtg	aag	gag	ggc	crg	gcc	cgc	atc		720
270	225	ııp	СТУ	пр	ASII		Ala	Leu	Val	гуѕ		GIY	Leu	Ala	Arg			
		~~~	t a a	+		230					235					240		
2/9	Dece	gcc	Coc	CCC	tgg	gtt	ggg	ctc	agg	ctt	ctg	gcc	gag	gcg	gtg	ggg		768
200	PIO	Ala	ser	ser		vai	GIY	Leu	Arg		Leu	Ala	Glu	Ala	Val	Gly		
281					245					250					255			
∠83	tac	acg	ggg	aag -	gcg	gtg	gag	gtg	gcc	ttc	cgc	atc	gcc	CCC	cgg	atc		816
∠84	Tyr	Inr	GTA		Ala	Val	GLu	Val	Ala	Phe	Arg	Ile	Ala	Pro	Arg	Ile		
285				260					265					270				
287	aac	gcg	gca	agc	cgc	ctc	999	gag	gct	gag	aag	gcc	cta	agg	ctc	ctc		864
288	Asn	Ala	Ala	Ser	Arg	Leu	Gly	Glu	Ala	Glu	Lys	Ala	Leu	Arg	Leu	Leu		

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289	€		275					280					285	i				
29	l ctc	acc	gac	gac	gcg	gcc	gag	gcc	cag	gcc	ctc	gtq	aaa	gaa	ctc	cac		912
292	2 Leu	Thr	Asp	Asp	Ala	Ala	Glu	Ala	Gln	Āla	Leu	Val	Gly	Glu	Leu	His		
293	3	290					295					300						
295	cgg	ctg	aac	gcc	cgc	cgc	cag	acc	ctg	gag	gag	gcc	atq	ctc	agg	aaq		960
296	Arg	Leu	Asn	Ala	Arg	Arg	Gln	Thr	Leu	Glu	Glu	Ala	Met	Leu	Arq	Lys		
	7 305					310					315					320		
299	ctc	ctc	CCC	cag	gcg	gac	CCC	gag	gcc	aag	gcc	atc	gtc	ctc	ctq	qac	1	.008
300) Leu	Leu	Pro	Gln	Ala	Asp	Pro	Glu	Ala	Lys	Āla	Ile	Val	Leu	Leu	Asp		
301	_				325					330					335	- 1		
303	ccc	gag	ggg	cac	ccg	ggg	gtg	atg	ggc	atc	gtg	gcg	agc	cqc	atc	ctq	. 1	.056
304	Pro	Glu	Gly	His	Pro	Gly	Val	Met	Gly	Ile	Val	Ala	Ser	Arq	Ile	Leu		
305	5			340					345					350				
307	gag	gcc	acc	ctc	cgg	CCC	gtc	ttc	ctg	gtg	gcc	cag	ggc	aaq	qqq	acq	1	104
308	Glu	Ala	Thr	Leu	Arg	Pro	Val	Phe	Leu	Val	Ala	Gln	Gly	Lys	Gly	Thr		
309)		3.55					360					365					
311	. gtg	cgg	agc	ctc	gcc	CCC	atc	agc	gcċ	gtg	gag	gcc	cta	agg	aqc	qcc	1	152
312	Val	Arg	Ser	Leu	Ala	Pro	Ile	Ser	Ala	Val	Glu	Āla	Leu	Arg	Ser	Ala		
313	i i	370		,			375					380		_				
315	gag	gac	ctt	ttg	ttg	cgc	tac	ggg	ggg	cac	aag	gag	gcg	gcg	ggc	ttc	1	200
316	GLu	Asp	Leu	Leu	Leu	Arg	Tyr	Gly	Gly	His	Lys	Glu	Ala	Ala	Gly	Phe		
317	385			•		390					395					400		
319	gcc	atg	gac	gag	gcc	ctc	ttc	CC,C	gcc	ttc	aag	gcc	cgg	gtg	gag	gcc	1	248
320	Ala	Met	Asp	Glu	Ala	Leu	Phe	Pro	Ala	Phe	Lys	Ala	Arg	Val	Glu	Ãla		
321					405					410					415			
323	tac	gcc	gcc	cgc	ttc	ccc	gac	CCC	gtg	cgc	gag	gtg	gcc	ctt	ttg	gac	1	296
324	Tyr	Ala	Ala	Arg	Phe	Pro	Asp	Pro	Val	Arg	Glu	Val	Ala	Leu	Leu	Asp		
325				420					425					430				
327	ctg	ctt	ccg	gag	CCC	ggc	ctc	ctc	CCC	cag	gtc	ttc	cgg	gag	ctc	gcc	1	344
328	Leu	Leu		Glu	Pro	Gly	Leu	Leu	Pro	Gln	Val	Phe	Arg	Glu	Leu	Ala		
329			435					440					445					
331	ctt	ttg	gag	CCC	tac	ggc	gag	gga	aac	CCC	gag	CCC	ctc	ttc	ctc	ctc	1	392
	Leu		GIu	Pro	Tyr	Gly		Gly	Asn	Pro	Glu	Pro	Leu	Phe	Leu	Leu		
333		450					455					460						
335	ttc	ggc	gcc	ccg	gag	gag	gcc	cgg	cgc	ctc	ggg	gag	ggc	cgc	cac	ctc	14	440
336	Phe	GIY	Ala	Pro	Glu		Ala	Arg	Arg	Leu	Gly	Glu	Gly	Arg	His	Leu		
	465					470					475					480		
339	gcc	ttc	cgc	ctg	aag -	aaa	gtg	cgg	gtc	ctg	gcc	tgg	aaa	cag	ggg	gac	14	488
340	Ala	Phe	Arg	Leu		Gly	Val	Arg	Val			Trp	Lys	Gln	Gly	Asp		
341					485					490					495			
343	ctc	gcc	ctg	CCC	ccg	gag	gtg	gag	gtg	gcg	ggc	ctc	ctc	agc	gaa	aac	15	536
344	Leu	Ата	Leu	Pro	Pro	Glu	Val	Glu		Ala	Gly	Leu	Leu	Ser	Glu	Asn		
345				500					505					510				
34/	gcc	гgg	aac	ggc	cac	ctc	gcc	tac	gag	gtc	cag	gcg	gtg	gac	ctg.	cga	15	584
348	Ala	rrp	Asn	ĠΤĀ	Hls	ьeu	Ala		GLu	Val	Gln	Ala		Asp	Leu	Arg		
349		a a =	515					520					525					
3 E J	aag	Dwa	gag	gcg	ctg	gag	ggc ·	ggg	atc	gcg	CCC	ttc	gcc	tac	CCC	ctg	16	532
354	Lys	510	GIU	AIA	ьeu	GIU		GTA	TTe	Ala	Pro		Ala	Tyr	Pro	Leu		
353		530				•	535					540		-				

RAW SEQUENCE LISTING ERROR SUMMARY

PATENT APPLICATION: US/09/938,901A

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:19; N Pos. 26

VERIFICATION SUMMARY

DATE: 09/28/2004 TIME: 10:38:44

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Input Set : A:\11283-013001.ST25.txt

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L:1408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID\$\$#:19 after pos.:0\$